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**PHOTOGRAPHIC
INTERPRETATION
REPORT**

**NATIONAL PHOTOGRAPHIC
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**NEWLY IDENTIFIED INSTALLATIONS,
LIAONING PROVINCE, CHINA**



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TOP SECRET RUFF**NEWLY IDENTIFIED INSTALLATIONS,
LIAONING PROVINCE, CHINA**

1. Sixty-six newly identified non-military installations were observed on photography of Liaoning Province [redacted] (Figure 1). Approximately 95 percent of the province was covered by cloud-free photography.

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2. Included in the 66 non-military installations are 25 chemical fertilizer plants, an iron and steel plant, an aluminum plant, five chemical-processing plants, and six unidentified installations. Examples of the newly identified installations are Fou-hsin Aluminum Plant (Figure 2) and Sha-ho-chia Chemical Fertilizer Plant (Figure 3).

3. Most of the known industries were operating at a high level of production as evidenced by the raw materials and finished products in open storage within the installations. Smoke was emitting from most of the heat-processing industries. The POL-related facilities appeared active with many POL tank cars observed within the refineries. The mining and forestry operations appeared normal. Many of the rail-yards were occupied by gondola cars and flat cars loaded with materials and equipment.

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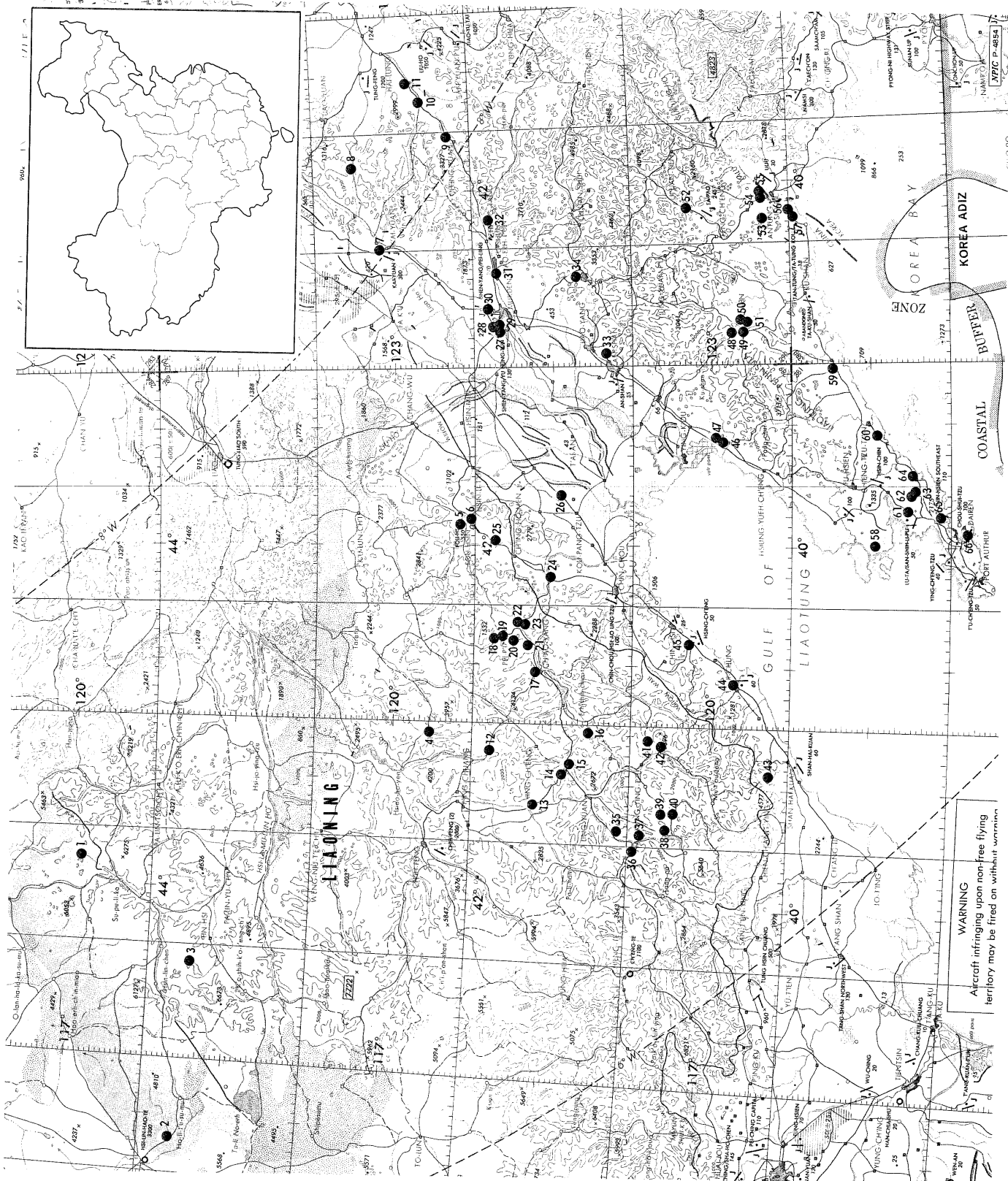
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FIGURE 1. LOCATION MAP

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Table 1. Newly Identified Installations, Liaoning Province, China (Item Numbers keyed to Figure 1)

Item	Installation	Geographic Coordinates	Description
1	Sha-li-nei Unidentified Installation	44-27-01N 118-42-22E	19 nm NE of Sha-li-nei. The installation, located on a mountaintop, consists of an excavation, earth scarring, and two support bldgs/barracks.
2	Odan-ka-shih-ya-to Mining Complex	43-55-00N 116-13-30E	6.5 nm SE of A-pa-ha-na-erh-chi. The road-served facility consists of four vertical-shaft coal mines with tipples and slag piles, a housing complex, and a small brick/tile plant.
3	Lin-hsi Mining Operation	43-43-50N 117-52-00E	11 nm NW of Lin-hsi. The facility consists of excavations in the side of a hill and a small support area with seven small support bldgs.
4	Ao-han-chi Communications Facility	42-15-50N 119-54-00E	On the south edge of Ao-han-chi. The installation consists of a large ground plain with four guyed lattice towers (one near the center, two near the edge, and one outside the ground plain area), a small control bldg near the center of the ground plain, and four interconnected bldgs.
5	Fu-shun Chemical Fertilizer Plant	41-49-50N 123-48-00E	On the SW edge of Fu-shun. The rail- and road-served wall-secured facility consists of a powerplant, a retort bldg, a gas-purification bldg, two nitric acid tanks, a nitric acid production bldg, an ammonia synthesis bldg, a bagging and packing bldg, and six storage/support bldgs.
6	Fu-shun Unidentified Activity	41-51-40N 124-14-00E	15.3 nm east of Fu-shun. The road-served facility consists of a poss C-shaped admin bldg, three poss quarters, a large multiwing bldg, 39 storage/support bldgs, and two storage tanks. No physical security was observed.
7	Kai-yuan Chemical Fertilizer Plant West	42-32-28N 124-00-45E	On the west edge of Kai-yuan. The wall-secured facility consists of an ammonia synthesis bldg with two absorbers, a nitric acid plant, a retort bldg, a powerplant, a packaging and storage area of four bldgs, a gasometer, and an unid bldg.
8	Hsi-feng Chemical Fertilizer Plant	42-43-25N 124-43-20E	On the south edge of Hsi-feng. The road-served facility contains a powerplant, a gas-purification bldg, a gasometer, a retort bldg, an ammonia synthesis bldg, a bagging bldg, and four storage bldgs.
9	Ching-yuan Chemical Fertilizer Plant	42-06-10N 124-57-10E	On the NE edge of Ching-yuan. The road-served facility contains a powerplant, a retort bldg, a gasometer, a gas-purification bldg, two nitric acid tanks, a nitric acid production and storage bldg, an ammonia synthesis bldg, a waste pond, and five support bldgs.
10	Lin-ho Chemical Fertilizer Plant	42-16-50N 125-44-50E	On the NE edge of Lin-ho. The road-served wall-secured facility contains a gasometer, a gas purification bldg, a retort bldg, an ammonia synthesis bldg, two nitric acid tanks, a nitric acid production and storage bldg, two packing and bagging bldgs, ten support bldgs, five barracks, and an admin bldg.
11	Pei-shan-cheng-chan Regional POL Storage Area	42-22-20N 125-24-40E	1 nm north of Pei-shan-cheng-chan. The facility consists of four large semiburied POL storage tanks and ten storage/support bldgs. The facility is road served and has no visible security. A poss transloading point is approx 1 nm south of the storage area at the main rail line serving the town.
12	Chien-ping Possible Microwave Facility	41-53-10N 119-43-20E	1,440 meters (0.8 nm) SSE of Chien-ping. The facility consists of a wall-secured area containing a prob microwave tower and a small control bldg.
13	Fu-chia-wo-pu Chemical Fertilizer Plant	41-36-20N 119-18-00E	1.2 nm SW of Fu-chia-wo-pu. The wall-secured road-served facility contains a powerplant, a retort bldg, a gas-purification bldg, a gasometer, a nitrate acid production and storage bldg, two nitrate acid tanks, an ammonia synthesis bldg, two fertilizer storage and bagging bldgs, four support bldgs, five barracks, and a waste pond.
14	Niu-ho Chemical Fertilizer Plant	41-24-00N 119-39-30E	1.2 nm NNE of Niu-ho. The wall-secured road-served facility contains a powerplant, a gas-purification bldg, a gasometer, an aqueous ammonia production bldg, an ammonia synthesis bldg, a nitric acid production/storage bldg, four storage bldgs, eight barracks, four support bldgs, and a packing/bagging bldg.
15	Niu-ho Rail Repair/Classification Yard	41-22-40N 119-38-40E	On the south edge of Niu-ho. The yard consists of two areas. The rail repair facility consists of two large repair bldgs (one monitor-roofed), 11 small support bldgs, and an auditorium. The classification yard consists of 15 tracks, a control bldg, numerous storage/support bldgs, and a rail transshipment area.
16	Kung-ying-tzu Chemical Fertilizer Plant	41-15-30N 119-54-35E	6.5 nm SE of Kung-ying-tzu. The road-served facility consists of a fertilizer-production area and a support area. The fertilizer-production area contains a powerplant, a retort bldg, a gasometer, a gas-purification bldg, two nitric acid tanks, a nitric acid production and storage bldg, an ammonia synthesis bldg, eight storage bldgs, ten support bldgs, and a waste pond. The support area contains a multi-wing admin bldg, four barracks, 15 support bldgs, and two waste ponds.
17	Chao-yang Chemical Fertilizer Plant	41-36-10N 120-26-55E	1.6 nm north of Chao-yang. The road-served wall-secured facility consists of a powerplant, two small gasometers, two nitric acid tanks, a nitric acid production plant, an ammonia synthesis bldg, eight storage/support bldgs, and two small waste ponds.
18	Pei-piao Chemical Fertilizer Plant	41-50-40N 120-41-20E	3 nm NW of Pei-piao. The road-served wall-secured facility consists of a gasometer, two nitric acid tanks, a bldg with prob ammonia tanks, an oxidation bldg with two prob absorbers, an ammonium nitrate bldg, a cooling pond, and five storage/support bldgs.
19	Pei-piao Chemical Fertilizer Plant	41-47-40N 120-42-40E	2.7 nm west of Pei-piao. The road- and rail-served facility consists of a powerplant, a gasometer, a gas-purification bldg, a retort bldg, two nitric acid tanks, a nitric acid production bldg, a packing and bagging bldg, a waste pond, and six support/storage bldgs.
20	Pei-piao Agricultural Processing Plant	41-44-50N 120-42-50E	3 nm NW of Pei-piao. The facility consists of a large processing bldg, eight workshops, a powerplant/steampant, a storage bldg, and four support bldgs.

Table 1. (Continued)

Item	Installation	Geographic Coordinates	Description
21	Ta-la-kou Possible POL Storage Area East	41-38-01N 120-40-30E	7 nm east of Ta-la-kou. The rail-served facility consists of a rail transshipment bldg, five support bldgs (one ucon), 11 medium horizontal storage tanks, eight small storage tanks, and an excavation.
22	Chin-ling-ssu Electric Power Substation PUG	41-41-40N 120-49-20E	1.3 nm south of Chin-ling-ssu. The facility consists of a doublefenced area containing a control bldg, a large cave entrance, a prob transformer with a-vitching equipment, and two small support bldgs. This installation is similar to other underground electric power substations observed in China.
23	Chin-ling-ssu Unidentified Installation	41-41-26N 120-50-25E	1.5 nm south of Chin-ling-ssu. The facility consists of three rail- and road-served areas. Area A (a processing area) contains a monitor-roofed processing bldg, a monitor-roofed machine shop, 11 support bldgs, and a semiburied water tank. The water tank is connected by a ground scar to a prob water pumping station adjacent to a river 1.3 nm to the northwest. A small housing/support area contains three barracks, a messhall, five support bldgs, and two vehicle-storage bldgs. Area B (a handling facility) consists of a bridge crane with a roof over one end, a rail transverser system with three sets of parallel rails, and six other bldgs. Area C (function undetermined) is at the end of the rail spur and consists of a medium high-bay bldg with an attached transloading bldg, a prob turntable on the rail spur, a water cistern, and eight support bldgs.
24	I-hsien Chemical Fertilizer Plant	41-31-45N 121-13-30E	On the west edge of I-hsien. The road-served wall-secured facility consists of a powerplant, a retort bldg, a gasometer, a gas-purification bldg, two nitric acid tanks, a nitric acid production bldg, an ammonia synthesis bldg, a packing and bagging bldg, and six storage/support bldgs.
25	Ching-ho-men Chemical Fertilizer Plant NE	41-49-30N 121-30-40E	6 nm NE of Ching-ho-men. The facility consists of a gasometer, a prob ammonia synthesis bldg, a prob prilling tower, at least two small storage tanks, several absorbers, a boilerhouse, two storage bldgs, and a processing bldg.
26	Chuan-tai Chemical Fertilizer Plant North	41-26-30N 121-53-37E	2 nm north of Chuan-tai. The wall-secured rail-served facility consists of a retort bldg, an ammonia synthesis bldg, a powerplant, a gasometer, a prilling tower, a processing bldg, a bagging bldg, a raw materials receiving bldg, and three storage/support bldgs.
27	Shen-yang Chemical Processing Plant	41-48-40N 123-19-00E	In the NW part of Shen-yang. The rail-served wall-secured facility consists of six processing bldgs, a heat plant, a prob powerplant, eight prob storage/processing tanks, four storage bldgs, and 13 small associated bldgs.
28	Shen-yang Chemical Processing Plant Northwest	41-48-20N 123-20-52E	In the NW part of Shen-yang. The wall-secured rail-served facility consists of eight processing bldgs, a storage/shipping bldg, two thickeners, a powerplant, two heat plants, 18 small support bldgs, and 22 small prob storage tanks.
29	Shen-yang Unidentified Chemical Processing Plant Northwest	41-49-50N 123-20-50E	In the NW part of Shen-yang. The rail-served wall-secured facility consists of three processing bldgs, a prob absorber, a heat plant, eight tanks, and six small support bldgs.
30	Wen-kuan-tun POL Storage Area	41-52-55N 123-27-40E	5 nm NNE of Shen-yang. The facility consists of three vertical prob POL tanks, 14 excavations for horizontal POL tanks, and a support bldg ucon. No security was observed.
31	Fou-hsin Aluminum Plant (Figure 2)	42-03-00N 121-40-30E	3.5 nm NE of Fou-hsin. The road-served facility consists of two electrolytic cell potrooms, a rectifier, a prob casting bldg, a prob foundry, 18 support bldgs, and two storage bldgs.
32	Fou-hsin Unidentified Installation	42-02-20N 121-44-10E	3.5 nm NE of Fou-hsin. The facility consists of a prob triple-fence-secured area containing a large revetment. Two bldgs and a liquid-storage tank are in the revetment.
33	Li-pi-yu Unidentified Mining Area	41-09-10N 123-03-50E	1.5 nm east of Li-pi-yu. The facility consists of a large openpit mine, a transshipment/handling facility, nine support bldgs, three-vehicle-storage sheds, and a heatplant. A housing/support area consists of 11 dormitories, a messhall, an auditorium, an admin bldg, and numerous dependents-housing units.
34	Pen-chi Steel Plant West	41-18-40N 123-43-00E	On the west edge of Pen-chi. The facility consists of an open-hearth furnace bldg with two stacks, a rolling mill, six prob annealing bldgs, a transshipment bldg, and nine smaller bldgs. This plant is connected by rail to Pen-chi Iron and Steel Plant Kung-yuan.
35	Ling-yuan Military Storage Facility	41-05-00N 119-05-30E	14.5 nm SW of Ling-yuan. The facility contains a drive-through arch-roofed partially earth-covered bldg, three revetted arch-roofed bldgs, and a partially revetted double-bay arch-roofed bldg. The area also contains two prob adits ucon, two large bldgs in an early stage of construction, and 12 barracks/quarters. A rail siding and four long support bldgs are approx 600 meters (1,969 feet) to the northwest.
36	Li-chia-wo-peng Rail Line Under Construction	40-58-50N 118-59-10E	5 nm NW of Li-chia-wo-peng. The rail line ucon extends from 40-58-50N 118-59-10E to approx 40-46-00N 119-15-00E. Numerous construction camps were observed.
37	Li-chia-wo-peng Unidentified Storage Area	40-53-00N 119-03-50E	2 nm SSE of Li-chia-wo-peng. The area is dispersed along three valleys and consists of eight storage bldgs. Prob rail lines lead from the bldgs to at least 22 cave entrances in the valley. A nearby small support area consists of 13 bldgs and a rail transshipment area. The entire area has been constructed since.
38	Pai-niu-chun Ore Smelter	40-52-20N 119-09-00E	3.2 nm NE of Pai-niu-chun. The facility consists of two large processing bldgs ucon with a stack between them, at least eight smaller processing bldgs, numerous housing support bldgs in various stages of construction, and numerous caves and excavation scars throughout the area. The smelter is dispersed along several valleys. A large amount of material was in open storage.

Table 1. (Continued)

Item	Installation	Geographic Coordinates	Description
39	Pai-niu-chun Unidentified Activity [REDACTED]	40-43-00N 119-08-00E	2 nm ENE of Pai-niu-chun. The area is dispersed along three valleys and is at the end of a railroad spur ucon. The activity consists of two multilevel-roofed bldgs, two large bldgs, four large semiburied storage tanks, and approx 150 other bldgs. A tunnel connects two of the three valleys. The two large bldgs are possibly connected by a large conduit that may extend through a ridge separating the two bldgs. The activity was not present [REDACTED] Part of the installation appears to be an unidentified chemical processing plant ucon consisting of numerous bldgs with vents on the roof. A tunnel connecting two of the three valleys appeared to be nearly complete. A large support area consisting of housing, storage, and other smaller support bldgs was ucon adjacent to the south side of the unid activity. The rail line will apparently continue past the installation toward the east.
40	Yao-shang Mining Area [REDACTED]	40-46-10N 119-15-20E	8 nm WNW of Yao-shang. The facility consists of a tunnel ucon and numerous support bldgs including housing and storage.
41	Chien-tsoo Unidentified Activity [REDACTED]	40-42-20N 119-15-50E	1.5 nm NW of Chien-tsoo. The road-served activity consists of ten large cave entrances dispersed along a valley, a construction support base, and a workers-housing area.
42	Chien-chang Chemical Fertilizer Plant [REDACTED]	40-48-40N 119-49-10E	1 nm east of Chien-chang. The road-served facility consists of a powerplant, a gasometer, a gas-purification bldg, an ammonia synthesis bldg, a retort bldg, four packaging/storage bldgs, ten small support bldgs, and a cooling pond.
43	Sha-ho-chia Chemical Fertilizer Plant [REDACTED] (Figure 3)	40-06-35N 119-35-15E	2.8 nm west of Sha-ho-chia. The wall-secured road-served facility consists of a powerplant, a retort bldg, a gas-purification bldg, two gasometers, eight prob nitric acid tanks, a nitric acid production bldg, an ammonia synthesis bldg, a packing and bagging bldg, a waste pond, and 14 storage and support bldgs.
44	Sui-chung Chemical Fertilizer Plant [REDACTED]	40-20-00N 120-20-10E	On the north edge of Sui-chung. The road-served wall-secured facility consists of a powerplant, a retort bldg, a gasometer, a gas-purification bldg, a nitric acid production bldg with two prob nitric acid tanks, a nitric acid storage bldg, an ammonia synthesis bldg, five storage bldgs, ten support bldgs, an admin bldg, and a waste pond.
45	Hsing-cheng Chemical Fertilizer Plant [REDACTED]	40-37-20N 120-41-15E	On the west edge of Hsing-cheng. The wall-secured road-served facility consists of a powerplant, a gasometer, a gas-purification plant, a retort bldg, an ammonia synthesis bldg, three nitric acid tanks, a nitric acid production bldg, and a waste pond. A water-purification plant is at the south end of the plant.
46	Kai-ping Probable Chlorine & Caustic Soda Plant [REDACTED]	40-24-40N 122-19-30E	On the east edge of Kai-ping. The wall-secured facility consists of a prob rectifier section, a cell bldg, two thickeners, two chlorine tanks, a dilute caustic tank, an evaporation bldg, two brine separation tanks, and a powerhouse.
47	Kai-ping POL Storage Area [REDACTED]	40-25-20N 122-20-00E	On the north edge of Kai-ping. The wall-secured facility consists of 23 horizontal POL storage tanks and two support bldgs.
48	Hsiu-yen Possible POL Storage Area [REDACTED]	40-21-40N 123-15-00E	5.3 nm north of Hsiu-yen. The road-served facility consists of two excavations for poss POL storage tanks, 20 horizontal prob POL storage tanks, and two support bldgs.
49	Hsiu-yen Mining Area [REDACTED]	40-17-00N 123-14-00E	2.5 nm SW of Hsiu-yen. The area consists of two poss mining shafts, 15 small revetted bldgs, and 19 small bldgs.
50	Hsiu-yen Ore Concentration Plant [REDACTED]	40-16-10N 123-21-30E	3.3 nm east of Hsiu-yen. The road-served facility consists of an ore-crushing bldg, a flotation bldg, a filtering and drying bldg, a trailings dewaterer, and a trailings pond.
51	Hsiu-yen Chemical Fertilizer Plant [REDACTED]	40-15-20N 123-16-50E	1.3 nm WSW of Hsiu-yen. The facility consists of a powerplant, a retort bldg, a gasometer, a gas-purification bldg, an ammonia synthesis bldg, a nitric acid production plant, five small prob acid storage tanks, a small cooling pond, and seven support bldgs.
52	Shih-cheng HF Communications Station [REDACTED]	40-37-20N 124-17-45E	1 nm SW of Shih-cheng. The facility contains a C-shaped control bldg and two support bldgs.
53	Lo-chuan-pei-kou Explosives Storage Area [REDACTED]	40-08-10N 124-10-30E	1.9 nm south of Lo-chuan-pei-kou. The road-served facility consists of four explosives-storage bldgs encircled by at least two fences. A small support bldg is outside the fenced area.
54	Tan-tung Switching Station [REDACTED]	40-04-55N 124-18-37E	3.8 nm WSW of Tan-tung. The facility consists of two adjacent switching yards with transformers, circuit breakers, and two control bldgs. A semi-buried oil storage tank is on the east edge of the substation.
55	Tan-tung Gas Plant [REDACTED]	40-07-00N 124-23-15E	On the east edge of Tan-tung. The facility consists of a coal-preparation bldg, a coal gas retort bldg, a poss water gas retort bldg, a gasometer, and five small support bldgs.
56	Yung-an-pei-tun Chemical Fertilizer Plant [REDACTED]	39-57-40N 124-11-10E	On the west edge of Yung-an-pei-tun. The road- and rail-served facility consists of a powerplant, a gasometer, a retort bldg, a gas-purification bldg, an ammonia synthesis bldg, a nitric acid production plant, two prob nitric acid storage tanks, two large semiburied storage tanks, a waste pond, four storage bldgs, and 15 small support bldgs.

Table 1. (Continued)

Item	Installation	Geographic Coordinates	Description
57	Yung-an-pei-tun Chemical Fertilizer Plant [REDACTED]	39-57-40N 124-11-50E	On the north edge of Yung-an-pei-tun. The road-served facility consists of a gasometer, a retort bldg, a gas-purification bldg, an ammonia synthesis bldg, a nitric acid production plant, two prob nitric acid tanks, a powerplant, four storage/support bldgs, and two prob barracks/admin bldg.
58	Pi-tzu-wo Salt Refinery [REDACTED]	39-26-00N 122-27-10E	5 nm NE of Pi-tzu-wo. The road-served facility consists of nine brine-concentration basins, an evaporation section, a prob filter bldg, a boilerhouse, a screening and packing section, and 20 small storage/support bldgs.
59	Chuang-ho-chieh Chemical Fertilizer Plant [REDACTED]	39-43-40N 122-57-50E	1.5 nm north of Chuang-ho-chieh. The road-served facility consists of a powerplant, a gasometer, a retort bldg, a gas-purification bldg, an ammonia synthesis bldg, a nitric acid production plant, two prob nitric acid storage tanks, three storage bldgs, three barracks, and an admin bldg.
60	Kao-chia-tun Salt Refinery [REDACTED]	39-27-30N 121-29-30E	4 nm NW of Kao-chia-tun. The rail- and road-served facility consists of a large brine-concentration basin, an evaporation section, a prob filter bldg, a prob filter bldg, a boiler plant, a screening and packing section, two large linear piles of salt, and six storage/support bldgs.
61	Su-chia-tun POL Storage Area [REDACTED]	39-15-50N 121-47-30E	In the center of Su-chia-tun. The facility consists of three large semiburied POL storage tanks served by rail and a loop road, and six support bldgs.
62	Liang-chia-tien Chemical Fertilizer Plant [REDACTED]	39-12-10N 121-56-10E	15 nm south of Liang-chia-tien. The wall-secured road-served facility consists of a gasometer, a powerplant, a retort bldg, a gas-purification bldg, an ammonia synthesis bldg, a prilling tower, a cooling pond, five storage bldgs, and four support bldgs.
63	Lian-chia-tien Chemical Fertilizer Plant [REDACTED]	39-12-20N 121-56-00E	On the SW edge of Liang-chia-tien. The partially wall-secured road-served facility consists of a powerplant, a retort bldg, a gasometer, a gas-purification bldg, an ammonia synthesis bldg, a nitric acid production plant, two prob nitric acid tanks, a nitric acid storage bldg, a cooling tower, a waste pond, and eight storage/support bldgs.
64	Teng-sha-ho Petro-Chemical Plant [REDACTED]	39-12-20N 122-03-10E	On the SW edge of Teng-sha-ho. The wall-secured road-served facility consists of a powerplant, a retort bldg, two fuel storage tanks, a gasometer, a prob gas-purification bldg, a chemical processing bldg with three poss absorbers, a prob nitric acid production bldg, and six storage/support bldgs.
65	Ta-fang-shen Heavy Fabrication Plant East [REDACTED]	39-03-25N 121-43-33E	1.6 nm east of Ta-fang-shen. The wall-secured rail-served facility consists of three heavy fabrication bldgs (two with stacks), a powerplant with a spray pond, six storage bldgs, three poss small shops, an admin bldg, and six other bldgs.
66	Lu-ta Agricultural Processing Plant [REDACTED]	38-53-34N 121-34-50E	On the south edge of Lu-ta. The wall-secured facility consists of two large high-bay bldgs, a heat plant, a poss cooling tower, a poss vehicle-storage bldg, and 15 support bldgs. The facility is rail-served with additional rail spurs ucon.

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